

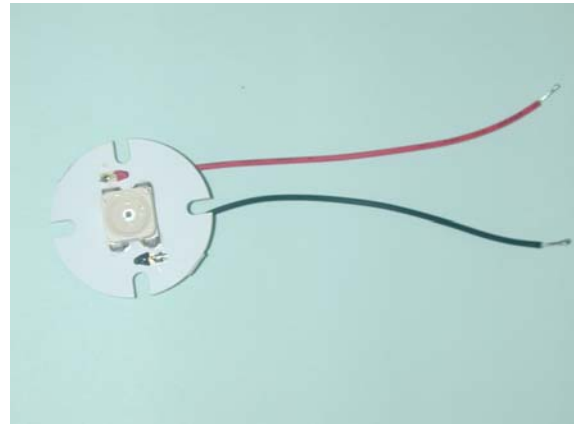
PRELIMINARY SPEC

Part Number : LT-001-10

WHITE

Features

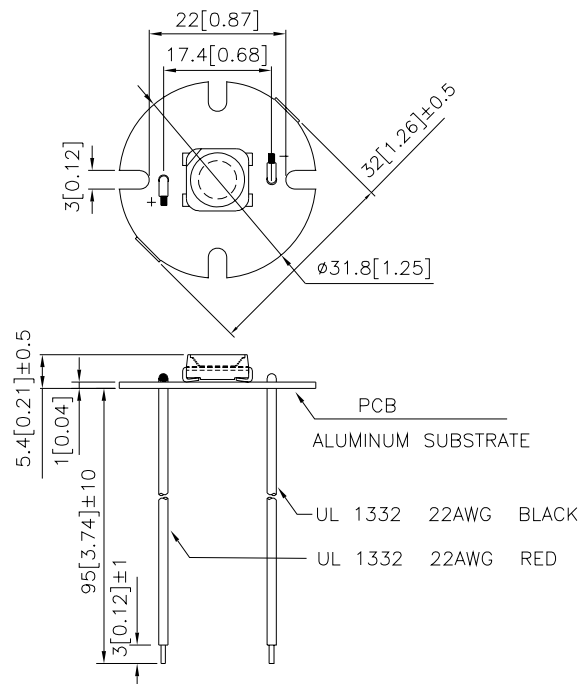
- *RELEASING HEAT WITH ALUMINUM SUBSTRATE.
- *SINGLE COLOR.
- *HIGH LUMINANCE.
- *THE LED PART NO : KA-1010QW9ZC
- *MOISTURE SENSITIVITY LEVEL : LEVEL 6.
- *RoHS COMPLIANT.



Applications

- *Display backlighting where high brightness is required.
- *substitution of micro incandescent lamps.
- *portable light source(e.g. bicycle flashlight).
- *signal and symbol luminaire for orientation.
- *marker lights(e.g. steps, exit ways, etc).
- *decorative and entertainment lighting.
- *indoor and outdoor commercial and residential architectural lighting.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
3. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	luminous Intensity [2] Iv(cd) @350 mA		Φv (lm) [2] @350 mA		Viewing Angle [1]
			Min.	Typ.	Min.	Typ.	
LT-001-10	WHITE (AlInGaN)	WATER CLEAR	3.5	5.0	9.4	14	110°

Notes:

- 01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
- Luminous Intensity / Luminous Flux: +/-15%.

Absolute Maximum Ratings at TA=25°C

Parameter	Symbol	Value	Unit
Power dissipation	Pt	1.45	W
Reverse Voltage	VR	Not Designed For Reverse Operation	V
Junction temperature	TJ	110	°C
Operating Temperature	Top	-40 To +85	°C
Storage Temperature	Tstg	-40 To +85	°C
DC Forward Current	IF	400	mA
Peak Forward Current [1]	IFM	700	mA
Thermal resistance	Rth	45	°C/W

Note:

- 1.1/10 Duty Cycle, 0.1ms Pulse Width.

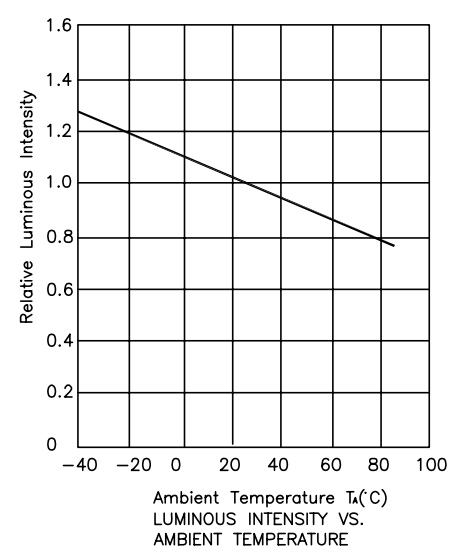
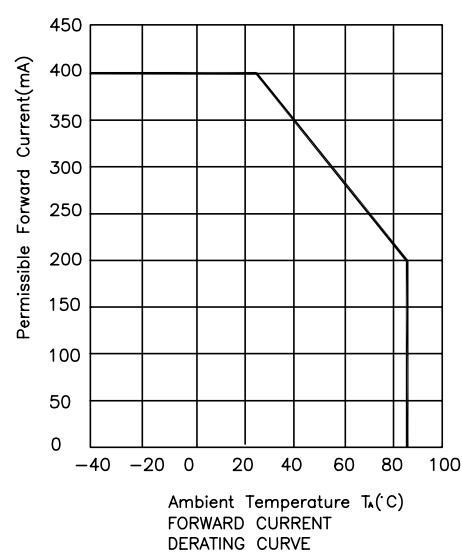
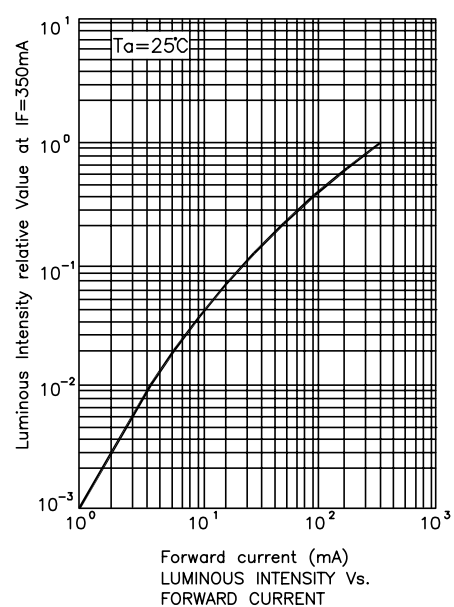
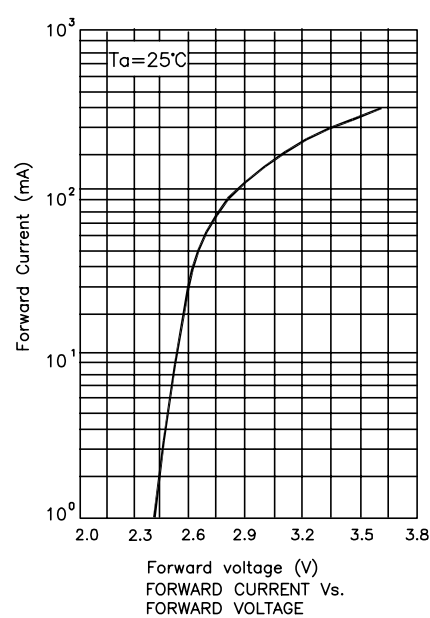
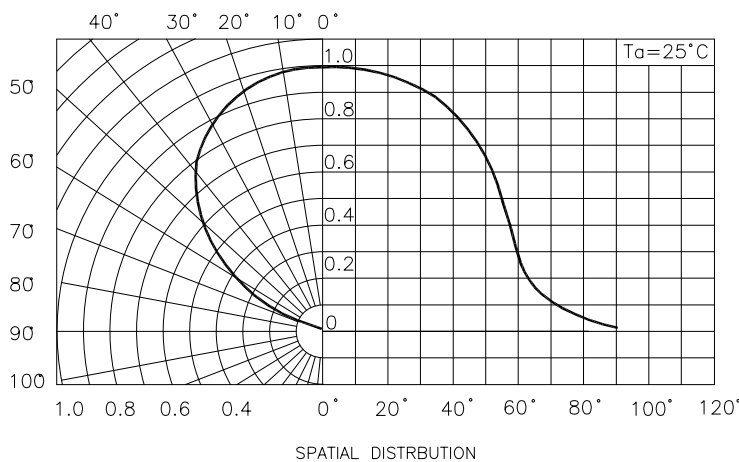
Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Value	Unit
Chromaticity coordinate X acc .to CIE1931 IF=350mA [Typ.]	X [1]	0.33	
Chromaticity coordinate Y acc. to CIE1931 IF=350mA [Typ.]	Y [1]	0.34	
Viewing angle at 50%Φv [Typ.]	θ	110	°
Forward Voltage IF=350mA [Min.]	VF [2]	2.7	V
Forward Voltage IF=350mA [Typ.]		3.5	
Forward Voltage IF=350mA [Max.]		3.8	
Reverse Current (VR=5V) [Max.]	IR	Not Designed For Reverse Operation	μA
Temperature coefficient of X IF=350mA, -10°C≤ T≤100°C [Typ.]	TCx	-0.18	10 ⁻³ /°C
Temperature coefficient of Y IF=350mA, -10°C≤ T≤100°C [Typ.]	TCy	-0.08	10 ⁻³ /°C
Temperature coefficient of VF IF=350mA, -10°C≤ T≤100°C [Typ.]	TCv	-2.0	mV/°C

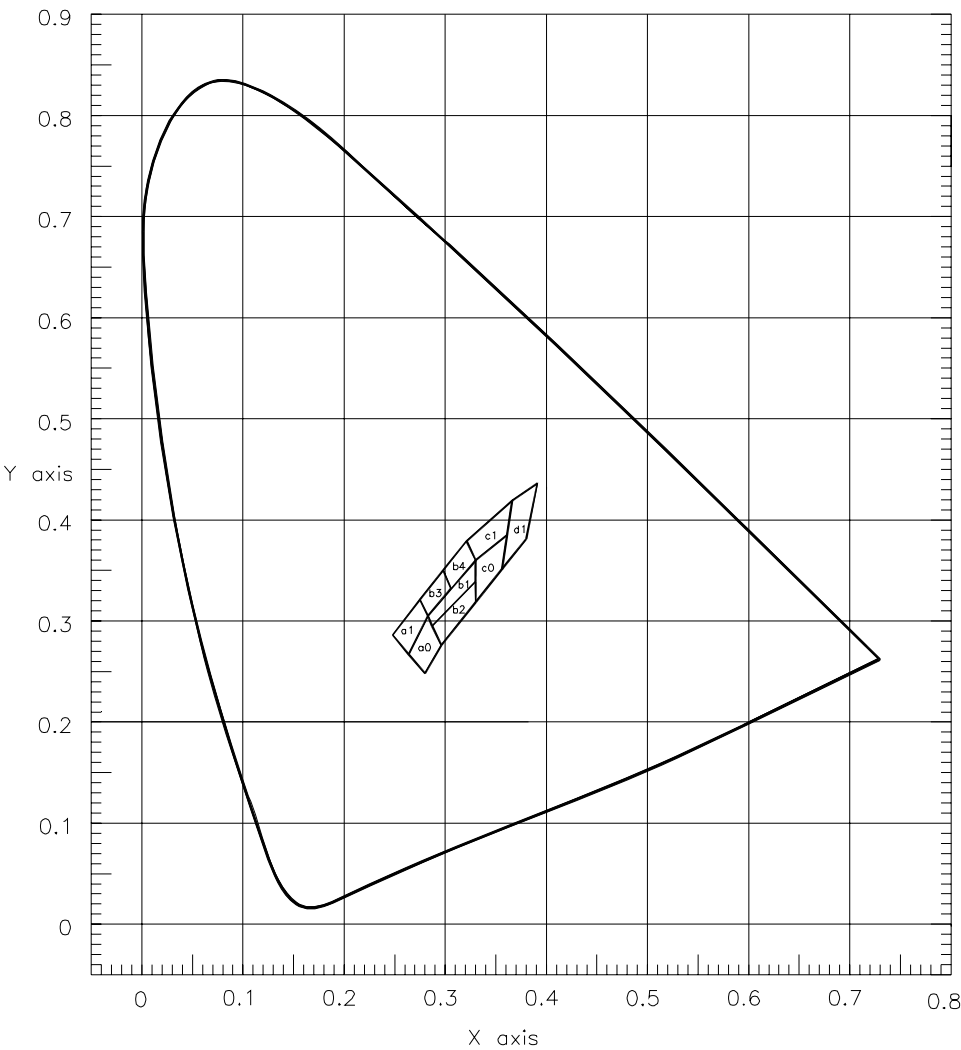
Notes:

- Chromaticity Coordinates X, Y: +/-0.01.
- Forward Voltage: +/-0.1V.

LT-001-10



LT-001-10



a1				
X	0.248	0.275	0.283	0.264
Y	0.286	0.321	0.305	0.267
b1				
X	0.283	0.330	0.330	0.287
Y	0.305	0.360	0.339	0.295
c1				
X	0.321	0.366	0.361	0.330
Y	0.379	0.419	0.385	0.360

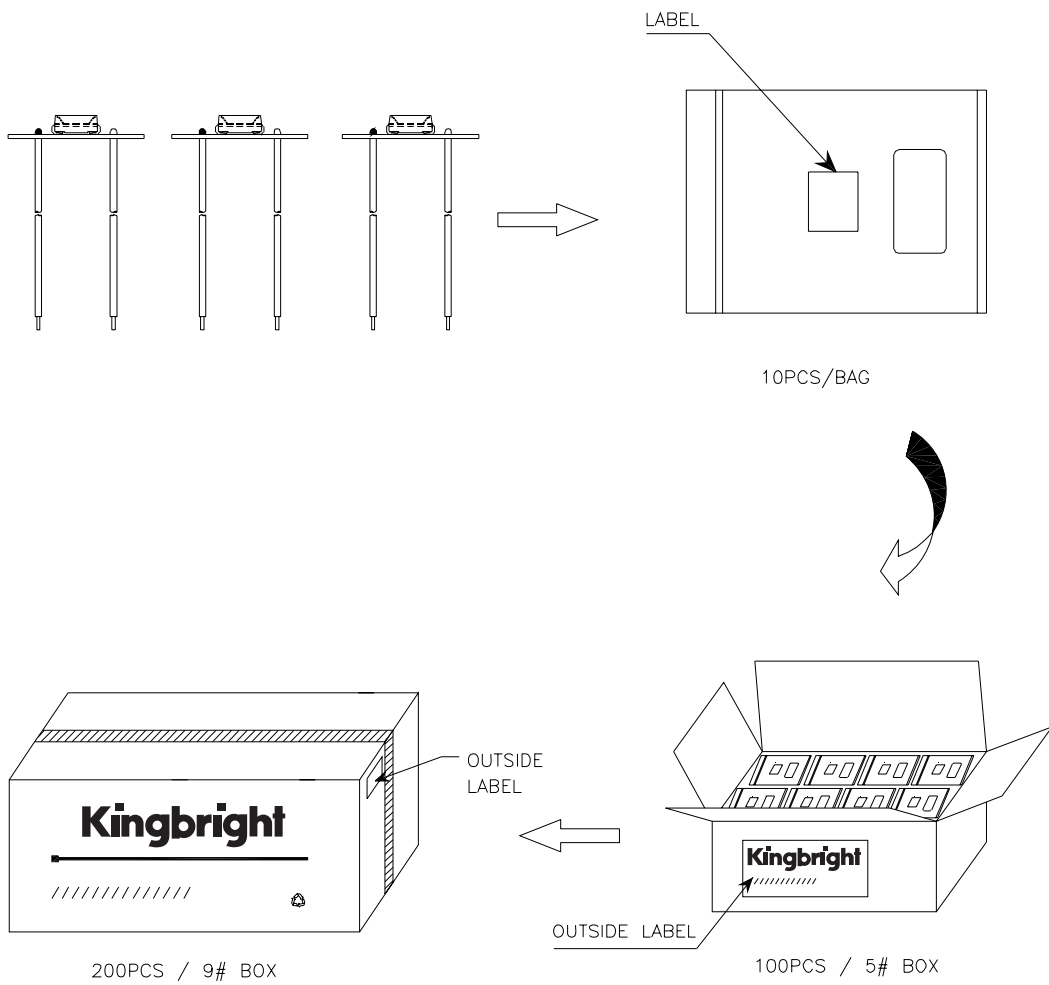
a0				
X	0.264	0.283	0.296	0.280
Y	0.267	0.305	0.276	0.248
b2				
X	0.287	0.330	0.330	0.296
Y	0.295	0.339	0.318	0.276
c0				
X	0.330	0.361	0.356	0.330
Y	0.360	0.385	0.351	0.318

b3				
X	0.275	0.298	0.306	0.283
Y	0.321	0.350	0.332	0.305
b4				
X	0.298	0.321	0.330	0.306
Y	0.350	0.379	0.360	0.332
d1				
X	0.366	0.391	0.380	0.356
Y	0.419	0.436	0.381	0.351

To=25°, IF=20mA Measurement Uncertainty of the Color Coordinates: +/−0.01

PACKING & LABEL SPECIFICATIONS

LT-001-10



Kingbright	
Q.C.	
TYPE NO : LT-001XXX	QC xxx xx xxx PASSED
QUANTITY : 10 pcs	Date
S/N : XXXX	CODE: XXX
LOT NO : 	
MADE IN CHINA	RoHS Compliant